

Project Description

Project Duration

This construction contract shall be terminated three hundred and sixty five (365) calendar days after the date the Contract is awarded by City Council. The construction time (in calendar days) for each individual site will be negotiated between the City Engineer or Program Manager and the Contractor. The Contractor will be expected to begin construction for each individual site in accordance with Article 1- General Provisions, Section 1.2.3, Notice to Proceed and Commencement of Contract Times in the General Conditions-Heavy/Hwy. The Contractor may also be limited to the amount of individual project sites open at any given time. Liquidated damages for construction time will be assessed should the contractor fail to complete the construction in the specified calendar days as negotiated by the City Engineer or Program Manager.

Project Scope

Project construction may include but is not limited to: roadway reclamation, street excavation, emulsion treatment, hot mix asphalt placement, milling and overlay, sidewalks, driveways, concrete curbs, concrete retaining walls-combination type, speed humps, wheel chair ramps, removing and relocating mail boxes, topsoil, sodding, sign relocations, striping adjustments, adjusting existing manholes and valve boxes, concrete collars, minor utility adjustments, and any other items required due to the site conditions to accomplish the project scope.

Quantities included in this contract, as well as the entire bid amount are not guaranteed. Unit prices established shall remain valid throughout the duration of the contract.

Project Location

The sites shall be assigned by the City Engineer or Program Manager and shall be located throughout the City of San Antonio. Each project site will be issued as a separate Task Order and quantities will be provided to the contractor.

It is anticipated that some project sites may require working time restrictions. No additional cost will be paid to the contractor for reduced working times.

Important Notes

No direct payment shall be made for the following specification items. Contractor shall include cost of these items in various other bid items:

100.1	Mobilization
100.2	Insurance and Bond
101.1	Preparing Right-of-Way
530.1	Barricades, Signs, and Traffic Handling
540	Temporary Erosion, Sedimentation and Water Pollution Prevention and Control

Excavation due to construction of curb, sidewalk, retaining walls, driveways, wheelchair ramps, and parkway grading (edge of pavement/curb to property line) shall not be paid for directly but shall be included in various other bid items of which it forms a component part.

Barricade (Item 530) Detail sheets are available on City's Website at:

<http://www.sanantonio.gov/cims/StandardDetailDrawings.asp>

Detour plans must be approved by the City of San Antonio Traffic Engineering Department.

All Construction Detail sheets available on City's Website at:

<http://www.sanantonio.gov/cims/StandardDetailDrawings.asp>

All Construction and Material Specifications for SAWS bid items are available at:

http://www.saws.org/business_center/specs/constspeccs/

http://www.saws.org/business_center/specs/matspeccs/

CITY OF SAN ANTONIO, TEXAS

**GOVERNING SPECIFICATIONS, SPECIAL SPECIFICATIONS, AND SPECIAL
PROVISIONS**
FOR

2012 RECLAMATION TASK ORDER CONTRACT – PACKAGE 5

All Standard Specifications and Special Specifications applicable to this project are identified as follows:

CITY OF SAN ANTONIO STANDARD SPECIFICATIONS FOR CONSTRUCTION
JUNE, 2008

<u>ITEM</u>	<u>DESCRIPTION</u>
100	- MOBILIZATION
101	- PREPARING RIGHT-OF-WAY
103	- REMOVE CONCRETE
104	- STREET EXCAVATION
107	- EMBANKMENT
108	- LIME TREATED SUBGRADE
200	- FLEXIBLE BASE
201	- CEMENT TREATED BASE
202	- PRIME COAT
203	- TACK COAT
204	- SURFACE TREATMENTS
205	- HOT MIX ASPHALTIC CONCRETE PAVEMENT
206	- ASPHALT TREATED BASE
208	- SALVAGING, HAULING AND STOCKPILING RECLAIMABLE ASPHALTIC PAVEMENT
210	- ROLLING

- 230 - BASE AND PAVEMENT REPLACEMENT
- 236 - FULL DEPTH RECLAMATION
- 300 - CONCRETE
- 301 - REINFORCING STEEL
- 303 - WELDED WIRE FLAT SHEETS
- 413 - FLOWABLE FILL
- 500 - CONCRETE CURB, GUTTER, AND CONCRETE CURB AND GUTTER
- 502 - CONCRETE SIDEWALKS
- 503 - ASPHALTIC CONCRETE, PORTLAND CEMENT CONCRETE, AND GRAVEL DRIVEWAYS
- 512 - ADJUSTING EXISTING MANHOLES AND VALVE BOXES
- 513 - REMOVING AND RELOCATING MAILBOXES
- 514 - PAINT AND PAINTING
- 515 - TOPSOIL
- 516 - SODDING
- 530 - BARRICADES, SIGNS, AND TRAFFIC HANDLING
- 531 - SIGNS
- 533 - CLEANING AND REMOVAL OF PAVEMENT MARKINGS AND MARKERS
- 535 - HOT APPLIED THERMOPLASTIC PAVEMENT MARKINGS
- 536 - PERFORMED PAVEMENT MARKINGS
- 537 - RAISED PAVEMENT MARKERS
- 540 - TEMPORARY EROSION, SEDIMENTATION, AND WATER POLLUTION PREVENTION AND CONTROL
- 554 - EROSION CONTROL MATTING

- 556 - CAST IN PLACE DETECTABLE WARNING SURFACE TILES
- 700 - COST LOADED PROJECT SCHEDULES
- 1000 - WEB PORTAL

SAN ANTONIO WATER SYSTEM STANDARD
SPECIFICATIONS FOR CONSTRUCTION

- 826 - VALVE BOX ADJUSTMENTS
- 851 - ADJUSTING EXISTING MANHOLES
- 851a - LOCATING AND ADJUSTING EXISTING MANHOLES

SPECIAL SPECIFICATIONS FOR CONSTRUCTION

- 799 - SPEED HUMPS, TYPE II MODULAR RUBBER CUSHIONS
- 801 - TREE AND LANDSCAPE PROTECTION
- 802 - TREE PRUNING, SOIL AMENDING, AND FERTILIZATION
- 805 - TREE REMOVAL AND REPLACEMENT
- 833 - EXISTING METER BOX ADJUSTMENT

CITY OF SAN ANTONIO GENERAL NOTES

1. ALL CONSTRUCTION SHALL CONFORM TO THE CITY OF SAN ANTONIO (COSA) STANDARDS SPECIFICATIONS FOR CONSTRUCTION DATED JUNE 2008, OR LATEST REVISION THERE OF.
2. NO EXTRA PAYMENT SHALL BE ALLOWED FOR WORK CALLED FOR ON THE PLANS, BUT NOT INCLUDED IN THE BID PROPOSAL. THIS INCIDENTAL WORK WILL BE REQUIRED AND SHALL BE INCLUDED IN THE PAY ITEM TO WHICH IT RELATES.
3. THE CONTRACTOR SHALL PROVIDE ACCESS FOR THE DELIVERY OF MAIL BY THE U.S. POSTAL SERVICE AT ALL TIMES.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING TO ITS ORIGINAL OR BETTER CONDITION ANY DAMAGE DONE TO EXISTING FENCES, CONCRETE ISLANDS, STREET PAVING, CURBS, SHRUBS, BUSHES OR DRIVEWAYS. (NO SEPARATE PAY ITEM).
5. CONTRACTOR SHALL NOTIFY THE CITY INSPECTOR TWENTY FOUR (24) HOURS PRIOR TO BACKFILL OF ANY UTILITY TRENCHES TO SCHEDULE FOR DENSITY TEST AS REQUIRED.
6. CONTRACTOR SHALL PRESERVE ALL CONSTRUCTION STAKES, MARKS, ETC. IF ANY ARE DESTROYED OR REMOVED BY THE CONTRACTOR OR HIS EMPLOYEES, THEY SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
7. CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES PRIOR TO CONSTRUCTION TO DETERMINE THE LOCATION OF EXISTING UTILITIES. CONTRACTOR SHALL NOTIFY THE FOLLOWING AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO EXCAVATION OPERATION:

- SAN ANTONIO WATER SYSTEM (SAWS)	233-2010,
- BEXAR METROPOLITAN WATER DISTRICT (BEXAR MET)	354-6538 / 357-5741
- COSA DRAINAGE	207-8048
- COSA SIGNAL OPERATIONS	207-7720 / 207-7765
- TEXAS STATE WIDE ONE CALL LOCATOR	1-800-344-8377
- CITY PUBLIC SERVICE ENERGY	
- TIME WARNER	
- AT&T	
- MCI	
8. THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES INDICATED ON THE PLANS ARE TAKEN FROM AVAILABLE RECORDS AND ARE NOT GUARANTEED, BUT SHALL BE INVESTIGATED AND VERIFIED BY THE CONTRACTOR BEFORE STARTING WORK. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY DAMAGE TO AND FOR THE MAINTENANCE AND PROTECTION OF THE EXISTING UTILITIES EVEN IF THEY ARE NOT SHOWN ON THE PLANS. LOCATION AND DEPTH OF EXISTING UTILITIES SHOWN HERE ARE APPROXIMATE ONLY. ACTUAL LOCATIONS AND DEPTHS MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION AND HE SHALL BE RESPONSIBLE FOR PROTECTION OF SAME DURING CONSTRUCTION.

9. ALL WASTE MATERIAL SHALL BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE HIS SOLE RESPONSIBILITY TO DISPOSE OF THIS MATERIAL OFF THE LIMITS OF THE PROJECT. NO WASTE MATERIAL SHALL BE PLACED IN EXISTING LOWS THAT WILL BLOCK OR ALTER FLOW LIMITS OF EXISTING ARTIFICIAL OR NATURAL DRAINAGE.
10. THE CONTRACTOR SHALL NOT PLACE ANY WASTE MATERIAL IN THE 100-YEAR FLOOD PLAIN WITHOUT FIRST OBTAINING AN APPROVED FLOOD PLAIN DEVELOPMENT PERMIT.
11. THE CONTRACTOR SHALL MAINTAIN ALL ADJOINING STREETS AND TRAVELED ROUTES FREE FROM SPILLED AND / OR TRACKED CONSTRUCTION MATERIALS AND / OR DEBRIS.
12. IF THE CONTRACTOR ENCOUNTERS ANY ARCHAEOLOGICAL DEPOSITS DURING CONSTRUCTION OPERATIONS, THE CONTRACTOR MUST STOP EXCAVATION IMMEDIATELY, CONTACT THE CITY INSPECTOR, AND CALL THE CITY HISTORIC PRESERVATION OFFICE AT 207-7306 OR 207-3327 FOR AN ARCHAEOLOGICAL INVESTIGATION. THE CONTRACTOR CANNOT BEGIN EXCAVATION AGAIN WITHOUT WRITTEN PERMISSION FROM THE CITY. IF MORE THAN THREE (3) DAYS ARE REQUIRED FOR INVESTIGATION (NOT INCLUDING HOLIDAY AND WEEKENDS) AND IF THE CONTRACTOR IS UNABLE TO WORK IN OTHER AREAS, THEN THE CONTRACTOR WILL BE ALLOWED TO NEGOTIATE FOR ADDITIONAL CONSTRUCTION TIME UPON WRITTEN REQUEST WITHIN TEN (10) DAYS AFTER THE FIRST NOTICE TO THE CITY OF ARCHAEOLOGICAL INVESTIGATION FOR EACH EVENT. IF THE TIME REQUIRED FOR INVESTIGATION IS LESS THAN OR EQUAL TO THREE (3) DAYS FOR EACH EVENT, CONTRACT DURATION WILL NOT BE EXTENDED.
13. IF SUSPECTED CONTAMINATION IS ENCOUNTERED DURING CONSTRUCTION OPERATIONS, COSA SHALL BE NOTIFIED IMMEDIATELY WHEN CONTAMINATED SOILS AND / OR GROUNDWATERS ARE ENCOUNTERED AT LOCATIONS NOT IDENTIFIED IN THE PLANS. THE NOTIFICATION SHOULD INCLUDE THE STATION NUMBER, TYPE OF CONTAMINATED MEDIA, EVIDENCE OF CONTAMINATION AND MEASURES TAKEN TO CONTAIN THE CONTAMINATED MEDIA AND PREVENT PUBLIC ACCESS. THE CONTAMINATED SOIL AND / OR GROUNDWATER SHALL NOT BE REMOVED FROM THE LOCATION WITHOUT PRIOR COSA APPROVAL. THE CONTRACTOR MUST STOP THE EXCAVATION IMMEDIATELY AND CONTACT THE C.O.S.A. INSPECTOR. THE CONTRACTOR CANNOT BEGIN EXCAVATION ACTIVITIES WITHOUT WRITTEN PERMISSION FROM THE CITY.
14. CONTRACTOR IS TO INCLUDE A MAILBOX POST BLOCKOUT FOR VACANT LOTS AND ALL RESIDENCES WHICH DO NOT HAVE MAILBOXES AT THE CURB. BLOCKOUTS ARE PROVIDED FOR FUTURE USE BY THE POST OFFICE (NO SEPARATE PAY ITEM).
15. CONTRACTOR SHALL NOT REMOVE OR ADJUST ANY VIA FACILITIES. THE CONTRACTOR MUST CONTACT VIA FOURTEEN DAYS PRIOR, FOR THE REMOVAL OF BENCHES, STOP POLES OR ANY OTHER VIA FACILITIES THAT MAY BE PRESENT. PLEASE PROVIDE THIRTY DAYS PRIOR NOTICE FOR SHELTER REMOVAL (TELEPHONE NOS: (210) 362-2155 OR (210) 362-2096). THE CONTRACTOR WILL BE LIABLE FOR ANY DAMAGES TO VIA FACILITIES NOT REMOVED BY VIA. THE CONTRACTOR IS REQUIRED TO REPLACE ALL FLATWORK

REMOVED OR DAMAGED IN THE COURSE OF EXECUTING THE CONTRACT UNLESS OTHERWISE NOTED BY VIA. THE CONTRACTOR WILL BE RESPONSIBLE FOR PROTECTING VIA FACILITIES IF ADJACENT TO WORK AREA.

16. PROJECT LOCATIONS AND LIMITS HAVE BEEN IDENTIFIED IN THE PLANS, HOWEVER, ADDITIONS, DELETIONS AND MODIFICATIONS TO THE LOCATIONS AND LIMITS MAY OCCUR.
17. AS DIRECTED BY THE COSA, THE STREET PAVEMENT, ADJACENT DRIVEWAYS, SIDEWALKS, AND WALKWAYS SHALL BE SWEEPED AND ALL DEBRIS REMOVED FROM THE WORK AREA (NO SEPARATE PAY ITEM).
 - SUBSEQUENT TO RECONSTRUCTION OPERATIONS
 - PRIOR TO LAYING A SURFACE COURSE
 - AS OFTEN AS NECESSARY TO REMOVE LOOSE MATERIAL.
18. THE CONTRACTOR SHALL PROVIDE THE CITY AN EMERGENCY TELEPHONE NUMBER FOR EVENINGS, WEEKENDS AND HOLIDAYS BY THE FIRST WORKING DAY FOR THE PROJECT. THIS TELEPHONE NUMBER MUST BE A COMMERCIAL ANSWERING SERVICE. THE ANSWERING SERVICE MUST BE ABLE TO CONTACT THE CONTRACTOR AND HAVE THE CONTRACTOR RESPOND TO THE CITY STAFF WITHIN TWO (2) HOURS OF THE INITIAL CONTACT.
19. IF THE CONTRACTOR WISHES TO WORK WEEKENDS, HE SHALL SUBMIT A REQUEST TO THE ENGINEER AND CITY INSPECTOR FOR APPROVAL SEVENTY TWO (72) HOURS PRIOR TO WORKING THE WEEKEND THEY WISH TO WORK.
20. WHEN PERFORMING WORK OPERATIONS AT NIGHT, THE CONTRACTOR SHALL PROVIDE ADEQUATE LIGHTING TO PERFORM THE NECESSARY OPERATIONS. IN ADDITION ALL VEHICLES MUST BE EQUIPPED WITH ONE OR MORE HIGH INTENSITY YELLOW FLASHING LIGHTS. (NO SEPARATE PAY ITEM).
21. UPON COMPLETION OF ALL WORK PROVIDED FOR IN THE CONTRACT FOR ANY INDIVIDUAL STREET, THE CITY ENGINEER AND INSPECTOR WILL MAKE AN INSPECTION. IF THE WORK IS FOUND TO BE SATISFACTORY, THE CONTRACTOR WILL BE RELEASED FROM FURTHER MAINTENANCE FOR THAT STREET. A SATISFACTORY INSPECTION WILL BE CONSIDERED A "PARTIAL ACCEPTANCE" OF THE WORK. SAID ACCEPTANCE WILL BE MADE IN WRITING AND SHALL IN NO WAY VOID OR ALTER ANY TERMS OF THE CONTRACT.
22. THE CONTRACTOR SHALL NOTIFY THE CITY INSPECTOR TWENTY FOUR (24) HOURS IN ADVANCE OF EACH DAY'S WORK. THIS NOTIFICATION SHALL INCLUDE THE MATERIAL SOURCE LOCATION AND THE LOCATION AT WHICH THE MATERIAL WILL BE PLACED. PHONE NUMBERS WILL BE PROVIDED AT THE PRECONSTRUCTION MEETING.

23. ALL COSTS ASSOCIATED WITH THE FOLLOWING ITEMS SHALL BE INCLUDED IN THE VARIOUS PAY ITEMS, AND SHALL NOT BE SEPARATELY COMPENSATED.

100 "MOBILIZATION"

100.1 "INSURANCE AND BOND"

101 "PREPARE RIGHT OF WAY"

530 "BARRICADES, SIGNS & TRAFFIC HANDLING"

24. THE CONTRACTOR SHALL PROVIDE UPDATED CONSTRUCTION SCHEDULES EVERY OTHER FRIDAY BY CLOSE OF BUSINESS, VIA E-MAIL FOR THE DURATION OF THE CONTRACT. THE CITY RESERVES THE RIGHT TO DIRECT THE CONTRACTOR WHERE TO WORK WHEN NECESSARY (NO SEPARATE PAY ITEM).

25. THE CONTRACTOR IS RESPONSIBLE FOR OBEYING ALL FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS.

26. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING CITY RIGHT OF WAY PERMITS FOR CONSTRUCTION. ALL RIGHT OF WAY PERMIT FEES RELATED TO THIS PROJECT WILL BE WAIVED.

27. THE CONTRACTOR SHALL CONDUCT OPERATIONS IN A MANNER SUCH THAT TRUCKS AND OTHER VEHICLES DO NOT CREATE A DIRT NUISANCE OR SAFETY HAZARD IN ANY STREETS, PUBLIC OR PRIVATE. CLEAN UP OF STREETS SHALL BE DONE DAILY AT A MINIMUM (NO SEPARATE PAY ITEM).

28. THE CONTRACTOR SHALL BE AWARE THAT THE QUANTITIES SHOWN IN THE TASK ORDER MAY CHANGE. THE CITY RESERVES THE RIGHT TO MAKE ADJUSTMENTS IN THE FIELD. PAYMENT FOR PERFORMING THE WORK SHALL BE MADE AT THE ESTABLISHED BID UNIT PRICE IN THE CONTRACT.

29. THE CITY WILL PROVIDE A TEMPLATE/VERBAGE FOR THE DOOR HANGER. CONTRACTOR SHALL PLACE HANGERS ON EVERY BUSINESS OR RESIDENCE WITHIN EACH SEGMENT LIMITS AND ANY OTHER LOCATIONS AS SPECIFIED BY THE INSPECTOR. AN ADDITIONAL DOOR HANGER SHALL BE PLACED AT ALL CORNER LOTS THAT WILL BE RECEIVING CURB RAMPS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE A PREVIEW COPY OF THE DOOR HANGER TO THE CITY SEVEN (7) DAYS PRIOR TO DISTRIBUTION.

30. AS DIRECTED BY THE CITY ENGINEER OR INSPECTOR, "FEATHER" HMAP INTO DRIVEWAYS TO PREVENT SURFACE PONDING. (NO SEPARATE PAY ITEM)

31. ALL CONCRETE SURFACES AND CONSTRUCTION JOINTS THAT WILL CONTACT THE PROPOSED HMAP SHALL BE PAINTED WITH A THIN UNIFORM COAT OF SS-IH TACK COAT. TACK COAT SHALL MEET THE REQUIREMENTS OF ITEM 203.

32. AT INTERSECTIONS WITH SIDEWALKS, THE FOLLOWING GUIDELINES WILL BE USED FOR THE PLACEMENT OF CURB RAMPS:

- ALL CURB RAMPS SHALL HAVE TRUNCATED DOMES INSTALLED.

- DESIGN DECISIONS ON CURB RAMPS WILL BE MADE IN THE FIELD WITH THE CITY INSPECTOR.
- EACH CURB RAMP SHALL INCLUDE THE LANDING PLUS WINGS AS REQUIRED TO MEET EXISTING GRADES.
- DETECTABLE ADA APPROVED WARNINGS, SHALL BE CAST IN PLACE 24 INCHES X 60 INCHES MANUFACTURED BY ARMOR-TILE MODEL NUMBER 465C2460RD UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- SIGN ADJUSTMENT.
- IRRIGATION RELOCATION AS NECESSARY.
- LANDSCAPE RELOCATION AS NECESSARY.

33. USE VACUUM OR REGENERATIVE AIR SWEEPERS ONLY WHEN SWEEPING WORK AREA (NO SEPARATE PAY ITEM).
34. ALL ASPHALT CUTTINGS AND AGGREGATE SHALL BE CONFINED TO THE STREET SURFACE WHERE THEY SHALL BE SWEEPED UP AND REMOVED FROM THE RIGHT-OF-WAY BY THE END OF EACH WORK DAY.
35. CONTRACTOR SHALL TRANSITION PROPOSED CURB TO EXISTING CURB AT A DISTANCE NOT LESS THAN 4 FEET OR NO MORE THAN 8 FEET. CONTRACTOR TO MATCH THE EXISTING CURB ELEVATION AT TIE-IN. CURB CONSTRUCTION SHALL BE PERFORMED BY EQUIPMENT APPROVED BY THE CITY AND SHALL NOT PRESENT A HAZARD TO TRAFFIC. ALL SAW CUTS SHALL BE FULL DEPTH SAWCUTS.
36. ALL QUANTITIES SHALL BE PRE-APPROVED BY THE CITY ENGINEER AND INSPECTOR.
37. AT INTERSECTING STREETS, CURB INLETS, DRIVEWAYS AND RETAINING WALLS, CONTRACTOR SHALL TIE PROPOSED FLATWORK TO EXISTING FLATWORK AND MATCH GRADES AT TIE-IN LOCATION. REFERENCE MISCELLANEOUS CONSTRUCTION STANDARDS FOR ACCEPTABLE TIE-INS.
38. GRAVEL FILTER BAGS SHOULD BE PLACED AT INLET STRUCTURES TO PREVENT MATERIAL FROM ENTERING INLETS AND STORM SEWERS. ALL MATERIAL ENTERING INLETS AND STORM SEWERS SHALL BE REMOVED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE COSA.
39. ALL TRUCK TICKETS SHALL HAVE THE NAME OF THE STREET THE MATERIAL WAS PLACED.
40. THE CONTRACTOR SHALL VIDEO TAPE ALL PROJECTS PRIOR TO ANY CONSTRUCTION. A BACK UP COPY WILL BE SUBMITTED TO THE CITY OF SAN ANTONIO PAVEMENT ENGINEERING DIVISION BEFORE PROJECTS COMMENCE. ITEMS TO BE VIDEOTAPED NEED TO BE IDENTIFIED BY ADDRESS (NO SEPARATE PAY ITEM):
 - FENCES
 - MAILBOX FROM ALL SIDES
 - DRIVEWAY ENTRIES
 - CURBS, SIDEWALK, AND PEDESTRIAN WALKWAYS
 - ANY FORM OF LANDSCAPING ON RIGHT OF WAY (TREES, PLANTS, ETC.)

41. THE CONTRACTOR SHALL PROVIDE A SCHEDULE OF WORK FOR THE ENTIRE PROJECT WITHIN FOURTEEN (14) DAYS OF THE NOTICE TO PROCEED (NO SEPARATE PAY ITEM).
42. FOR LOCATIONS IN THE PAVEMENT SECTION THAT HAVE LESS THAN 6" COMBINED BASE COURSE PLUS SURFACE COURSE, THE CONTRACTOR SHALL EXCAVATE SUFFICIENT SUBGRADE, BASE, AND ASPHALT MATERIAL AS REQUIRED TO MEET THE PROPOSED GRADES. CONTRACTOR SHALL HAUL OFF EXCAVATED SUBGRADE MATERIAL AND REPLACE WITH THE BASE MATERIAL IDENTIFIED BY THE GEOTECHNICAL REPORT.
43. MATERIAL SUBMITTALS TO BE PROVIDED TO THE CITY OF SAN ANTONIO QUALITY ASSURANCE MANAGER PRIOR TO STARTING CONSTRUCTION.

TREE PROTECTION AND PRESERVATION GENERAL NOTES

1. NO UTILITY OR STREET EXCAVATION WORK SHALL BEGIN IN AREAS WHERE TREE PRESERVATION AND TREATMENT MEASURES HAVE NOT BEEN COMPLETED AND APPROVED.
2. TREE PROTECTION FENCING SHALL BE REQUIRED AND TREE PROTECTION FENCING SHALL BE INSTALLED, MAINTAINED AND REPAIRED BY THE CONTRACTOR DURING SITE CONSTRUCTION AS NOTED IN THE PLANS. DURING CONSTRUCTION ACTIVITY, AT LEAST A SIX-INCH LAYER OF COARSE MULCH SHALL BE PLACED AND MAINTAINED OVER THE ROOT PROTECTION ZONE (NO SEPARATE PAY ITEM).
3. THE CONTRACTOR SHALL AVOID CUTTING ROOTS LARGER THAN ONE INCH IN DIAMETER WHEN EXCAVATING NEAR EXISTING TREES. ROOTS OR BRANCHES IN CONFLICT WITH CONSTRUCTION SHALL BE CUT CLEANLY ACCORDING TO PROPER PRUNING METHODS. OAK WOUNDS SHALL BE PAINTED OVER WITHIN 30 MINUTES TO PREVENT OAK WILT. EXCAVATION IN THE VICINITY OF TREES SHALL PROCEED WITH CAUTION. THE CONTRACTOR SHALL CONTACT THE CITY ARBORIST/INSPECTOR FOR GUIDANCE.
4. ROOTS WILL BE CUT WITH A ROCK SAW OR BY HAND, NOT BY AN EXCAVATOR OR OTHER ROAD CONSTRUCTION EQUIPMENT.
5. ALL CURB AND SIDEWALK WORK SHALL USE ALTERNATIVE CONSTRUCTION METHODS TO MINIMIZE EXTENSIVE ROOT DAMAGE TO TREES (REFER TO DETAILS).
6. EXPOSED ROOTS SHALL BE COVERED AT THE END OF THE DAY USING TECHNIQUES SUCH AS COVERING WITH SOIL, MULCH, OR WET BURLAP.
7. NO EQUIPMENT, VEHICLES OR MATERIALS SHALL OPERATE OR BE STORED WITHIN THE ROOT PROTECTION ZONE OF ANY TREE NEAR THE PROJECT. ROOT PROTECTION ZONE IS A 1 FOOT RADIUS PER INCH OF TREE'S DIAMETER. A 10-INCH DIAMETER TREE WOULD HAVE A 10 FOOT RADIUS ROOT PROTECTION ZONE AROUND THE TREE. NO CLEAN-OUTS WILL BE CONSTRUCTED SO THAT THE MATERIAL SHALL BE IN OR MIGRATE TO THE ROOT PROTECTION ZONE.

8. SAPLINGS, SHRUBS OR BUSHES TO BE CLEARED FROM THE PROTECTED ROOT ZONE AREA OF A LARGE TREE SHALL BE REMOVED BY HAND AS DESIGNATED BY THE INSPECTOR.
9. NO WIRES, NAILS OR OTHER MATERIAL MAY BE ATTACHED TO PROTECTED TREES.
10. TREES, TREE LIMBS, BUSHES AND SHRUBS LOCATED IN THE CITY STREET OR ALLEY RIGHT-OF-WAY OR PERMANENT EASEMENTS WHICH INTERFERE WITH PROPOSED CONSTRUCTION ACTIVITIES SHALL BE PROPERLY PRUNED FOLLOWING THE ANSI A-300 STANDARDS FOR PRUNING. ALL TREE PRUNING SHALL BE COMPLETED BY A CITY OF SAN ANTONIO TREE MAINTENANCE LICENSED CONTRACTOR (ARTICLE 21-171, CITY CODE) ONLY AFTER APPROVAL FROM THE CAPITAL PROJECTS MANAGEMENT THROUGH THE INSPECTOR.
11. NO EXCESSIVE TREE TRIMMING WILL BE PERMITTED.
12. ALL DEBRIS GENERATED BY THE PRUNING AND TRIMMING OF TREES AND / OR BUSHES SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF PROPERLY (NO SEPARATE PAY ITEM).
13. TREES MUST BE MAINTAINED IN GOOD HEALTH THROUGHOUT THE CONSTRUCTION PROCESS. MAINTENANCE MAY INCLUDE, BUT NOT LIMITED TO: WATERING THE ROOT PROTECTION ZONE, WASHING FOLIAGE, FERTILIZATION, PRUNING, ADDITIONAL MULCH APPLICATIONS AND OTHER MAINTENANCE AS NEEDED ON THE PROJECT (NO SEPARATE PAY ITEM).
14. ANY TREE REMOVAL SHALL BE APPROVED BY THE CITY ARBORIST. (207-0278)
15. TREES WHICH ARE DAMAGED OR LOST DUE TO THE CONTRACTOR'S NEGLIGENCE DURING CONSTRUCTION SHALL BE MITIGATED TO THE CITY'S SATISFACTION AT THE CONTRACTOR'S EXPENSE.
16. TREE PLANTING FOR MITIGATION OR ENHANCEMENT: ALL PLANTED TREES SHALL BE MAINTAINED IN A HEALTHY CONDITION AT ALL TIMES. THIS INCLUDES IRRIGATION, FERTILIZING, PRUNING AND OTHER MAINTENANCE AS NEEDED ON THE PROJECT. TREES THAT DIE WITHIN TWELVE (12) MONTHS SHALL BE REPLACED WITH A TREE OF EQUAL SIZE AND SPECIES AT NO ADDITIONAL COST TO THE COSA.
17. NO GRADE CHANGE MORE THAN 3" IS ALLOWED WITHIN THE ROOT PROTECTION ZONE.
18. THE CONTRACTOR SHALL NOTIFY RESIDENCES PRIOR TO REMOVAL OF ANY SHRUBBERY LOCATED IN THE CONSTRUCTION AREA. CONTRACTOR SHALL SALVAGE REMOVED SHRUB AT RESIDENT'S REQUEST AND PLACE JUST INSIDE THE RIGHT OF WAY ON THE RESIDENT'S PROPERTY.

ACCESSIBILITY REQUIREMENTS

1. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN VEHICULAR AND PEDESTRIAN ACCESS AT ALL TIMES TO LOCAL RESIDENCES AND BUSINESSES.

2. WHEN THE WORK REQUIRES THE EXCAVATION OF THE STREET AND THE REMOVAL OF THE EXISTING DRIVEWAY APPROACHES AND SIDEWALKS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY ALL-WEATHER ACCESS TO THE BUSINESSES AND RESIDENCES. THE TEMPORARY DRIVEWAY APPROACHES SHALL BE CONSTRUCTED WITH FLEXIBLE BASE OR GRAVEL MATERIAL AT NO SEPARATE COST TO THE CITY.
3. PRIOR TO INITIATING THE CONSTRUCTION OF NEW DRIVEWAY APPROACHES, THE CONTRACTOR SHALL GIVE ADVANCE WARNING IN PERSON, OR IN WRITING AT LEAST 48 HOURS TO EACH RESIDENCE THAT WILL BE IMMEDIATELY AFFECTED, SO THAT ALTERNATE PLANS MAY BE MADE BY THE RESIDENTS.
4. FOR BUSINESSES WITH MORE THAN ONE DRIVEWAY, AT LEAST ONE DRIVEWAY SHALL REMAIN OPEN WHILE THE OTHER NEW DRIVEWAY APPROACHES ARE CONSTRUCTED. FOR BUSINESSES WITH ONLY ONE DRIVEWAY, THE NEW DRIVEWAY APPROACH SHALL BE CONSTRUCTED IN HALF WIDTHS, UNLESS A TEMPORARY ASPHALT DRIVEWAY IS FIRST INSTALLED AT NO SEPARATE COST TO THE CITY.

TRAFFIC NOTES AND SPECIAL CONDITIONS

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SEE THAT ALL TRAFFIC CONTROL DEVICES ARE PROPERLY INSTALLED AND MAINTAINED AT THE JOB SITE IN ACCORDANCE WITH THE PLANS, SPECIFICATIONS AND RELATED INDUSTRY STANDARDS AND REGULATIONS. THESE NOTES, DO NOT, OF THEMSELVES, CONSTITUTE A TRAFFIC CONTROL PLAN. IN THE EVENT THAT THESE PLANS DO NOT INCLUDE TRAFFIC CONTROL, OR THAT THE CONTRACTOR WISHES TO VARY FROM TRAFFIC CONTROL INCLUDED WITH THESE PLANS, HE SHALL SUBMIT FOR REVIEW A TRAFFIC CONTROL PLAN SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF TEXAS, INCLUDING A SIGN AND BARRICADE PLAN CONFORMING TO THE REQUIREMENTS OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. THE CITY'S CONSTRUCTION OBSERVER/INSPECTOR (COI) AND THE TRAFFIC ENGINEERING REPRESENTATIVE WILL ONLY BE RESPONSIBLE TO INSPECT THE TRAFFIC CONTROL DEVICES BEING DEPLOYED. IF, IN THE OPINION OF THE TRAFFIC ENGINEERING REPRESENTATIVE AND THE COI, THE TRAFFIC CONTROL DEVICES DO NOT CONFORM TO ESTABLISHED STANDARDS\ OR ARE INCORRECTLY PLACED OR ARE INSUFFICIENT IN QUANTITY TO PROTECT THE GENERAL PUBLIC, THE COI SHALL HAVE THE OPTION TO STOP CONSTRUCTION OPERATIONS AT NO EXPENSE TO THE CITY UNTIL SUCH TIME AS THE CONDITIONS ARE CORRECTED BY THE CONTRACTOR.
2. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL CONTACT THE CITY OF SAN ANTONIO TRAFFIC OPERATIONS DEPARTMENT AT 207-7765 FOR A TRAFFIC SIGN AND TRAFFIC SIGNAL INVENTORY AND TRAFFIC LOOP LOCATES AT ALL SIGNALIZED INTERSECTIONS. PRIOR TO COMPLETION OF THE CONTRACT AND REMOVAL OF THE BARRICADES, THE CONTRACTOR SHALL AGAIN CONTACT THE TRAFFIC OPERATIONS DEPARTMENT. THE BARRICADES SHALL NOT BE REMOVED UNTIL ALL APPLICABLE PERMANENT TRAFFIC SIGNS AND SIGNALS ARE IN PLACE.
3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN AND MAINTAIN TEMPORARY STOP SIGNS AND ALL OTHER TRAFFIC CONTROL DEVICES REQUIRED TO PROTECT THE GENERAL PUBLIC. IF THE CITY OF SAN ANTONIO HAS REMOVED PERMANENT STOP SIGNS, THE

CONTRACTOR SHALL REQUEST THAT THE SIGNS BE RETURNED TO THE CONSTRUCTION SITE TO BE REINSTALLED BY THE CONTRACTOR. ALL PERMANENT SIGNS OR TRAFFIC CONTROL DEVICES MISSING OR DAMAGED UPON COMPLETION OF CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

4. THE CONTRACTOR MUST CONTACT THE CITY'S COI 48 HOURS IN ADVANCE (NOT INCLUDING WEEKENDS) OF ANY MINOR STREET CLOSURE. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO ADVISE THE COI 10 DAYS IN ADVANCE OF AN ARTERIAL TOTAL STREET CLOSURE. THIS MUCH TIME IS NECESSARY TO INSTALL ADVISORY SIGNS AND GIVE THE MOTORISTS A MINIMUM OF 7 DAYS NOTICE OF THE STREET CLOSURE. AFTER BEING NOTIFIED, THE COI WILL CONTACT THE TRAFFIC ENGINEERING OFFICE TO MAKE THE NECESSARY ARRANGEMENTS.
5. WORK AROUND SCHOOLS SHALL BE SCHEDULED TO ELIMINATE IMPACTS TO THE SCHOOL. LANES SHALL NOT BE CLOSED DURING THE TIME STUDENTS ARE BEING DROPPED OFF AND PICKED UP FROM SCHOOL. WORK WITHIN A SCHOOL ZONE CAN ONLY OCCUR BETWEEN THE HOURS OF 9 AM AND 2 PM.
6. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SEE THAT ALL SIGNS AND BARRICADES ARE PROPERLY INSTALLED AND MAINTAINED. ALL LOCATIONS AND DISTANCES WILL BE DECIDED UPON IN THE FIELD BY THE CONTRACTOR, USING THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
 - MULTILANE USE TXDOT TOP'S
 - LOCAL STREET CLOSURES USE CITY STANDARDS
 - UNIQUE SITUATIONS USE TMUTCD, NEED PRIOR APPROVAL
7. FOR STREETS LISTED ON THE CITY OF SAN ANTONIO'S MAJOR THOROUGHFARE PLAN, THE CONTRACTOR SHALL SUBMIT AN ENGINEERED TRAFFIC CONTROL PLAN TO THE CITY OF SAN ANTONIO TWO WEEKS PRIOR TO COMMENCING WORK.
8. THE CONTRACTOR SHALL MAINTAIN TRAFFIC ON THE PROJECT STREETS THROUGHOUT CONSTRUCTION. IN THE EVENT THE CONTRACTOR MUST CLOSE A STREET TO TRAFFIC, HE SHALL OBTAIN PERMISSION FROM THE TRAFFIC ENGINEERING DEPARTMENT AND SHALL PROVIDE A MINIMUM FORTY EIGHT (48) HOURS NOTICE TO THE FIRE DEPARTMENT AND POLICE DEPARTMENT.
9. AS WORK PROGRESSES, LOCATIONS OF TEMPORARY TRAFFIC CONTROL DEVICES WILL BE ADJUSTED AND MODIFIED, AS NECESSARY, BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL SUPPLY TWO CARRIABLE MESSAGE SIGN BOARDS FOR USE THROUGHOUT THE CONTRACT (NO SEPARATE PAY ITEM).
10. IF THE NEED ARISES, ADDITIONAL TEMPORARY TRAFFIC CONTROL DEVICES, SPECIAL DIRECTIONAL DEVICES, AND/OR BUSINESS NAME SIGNS MAY BE ORDERED BY THE TRAFFIC ENGINEERING REPRESENTATIVE AT THE CONTRACTOR'S EXPENSE.
11. THE CONTRACTOR MUST MAINTAIN ALL STREETS WITHIN PROJECT LIMITS OPEN TO THROUGH TRAFFIC BY REPAIRING TRENCHES, POTHOLES, LEVELING UP WITH ASPHALT, ETC. AT NO DIRECT PAYMENT, WITH THE COST TO BE INCLUDED IN OTHER ITEMS.

12. WHEN CONSTRUCTION WORK NECESSITATES THE UTILIZATION OF VEHICLE PATHS OTHER THAN THE LANES NORMALLY USED, TRAFFIC CONTROL MARKINGS NO LONGER APPLICABLE SHALL BE REMOVED AND APPROVED TEMPORARY PAVEMENT MARKINGS AND SIGNS INSTALLED IN ACCORDANCE WITH PART VI-D OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
13. PERMANENT PAVEMENT MARKINGS SHALL BE APPLIED PRIOR TO THE OPENING OF THE COMPLETED STREET TO TRAFFIC IF APPLICABLE. TEMPORARY ADDITIONAL SHORT-TERM EXPENDABLE PAVEMENT MARKINGS MAY BE PROVIDED PRIOR TO THE APPLICATION OF PERMANENT MARKINGS, OR RAISED PAVEMENT MARKINGS TO DELINEATE CONTINUITY UNTIL SUCH TIME AS STANDARD PAVEMENT MARKINGS IN NORMAL LENGTHS CAN BE PLACED AT NO DIRECT PAYMENT.
14. ALL TEMPORARY TRAFFIC CONTROL DEVICES, ECT. SHALL BE PROVIDED BY THE CONTRACTOR WITHOUT DIRECT PAYMENT, UNLESS OTHERWISE NOTED OR STATED. TEMPORARY TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE CITY'S "TYPICAL SIGN AND BARRICADE STANDARDS" SHEETS AND TO THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
15. THE COI WILL MONITOR THE CONTRACTOR'S TRAFFIC CONTROL DEVICES AND WILL BE RESPONSIBLE TO FURNISH ALL RESIDENTS AND BUSINESSES WITH AN INFORMATION FLYER ON ALL JOBS DURING CONSTRUCTION.
16. UNLESS OTHERWISE DIRECTED BY THE ENGINEER, ANY DAMAGE TO PERMANENT TRAFFIC SIGNALS, THE CONTROLLER BOX, LOOPS OR CONDUITS DURING OR UPON COMPLETION OF THE PROJECT SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE. THE DECISION TO REPAIR, AS OPPOSED TO REPLACE, THE DAMAGED EQUIPMENT SHALL BE MADE BY THE CITY'S TRAFFIC ENGINEER.
17. CONTRACTOR SHALL MAINTAIN AT LEAST ONE LANE OPEN TO TRAFFIC AT ALL TIMES. UNIFORMED OFF-DUTY POLICE OFFICER SHALL BE ON SITE IF ONE LANE CANNOT REMAIN OPEN (NO SEPARATE PAY ITEM).
18. OFF-DUTY POLICE OFFICERS WILL BE REQUIRED AS DIRECTED BY THE TRAFFIC ENGINEER AT NO DIRECT PAYMENT, COST TO BE INCLUDED IN OTHER BID ITEMS. THIS WILL BE A REQUIREMENT WHERE TWO-WAY TRAFFIC IS TO BE MAINTAINED. ALL OFF DUTY OFFICERS AND CONTRACTOR CREWS HANDLING TRAFFIC MUST BE LISTED AS CERTIFIED OR QUALIFIED FLAGGERS BY CONTRACTOR (NO SEPARATE PAY ITEM).
19. CONTRACTOR SHALL SCHEDULE HIS WORK SUCH THAT EACH STREET WILL BE SUBSTANTIALLY COMPLETE PRIOR TO MOVING HIS CONSTRUCTION OPERATION TO ANOTHER STREET. MORE THAN ONE STREET CAN BE UNDER CONSTRUCTION IF PRIOR APPROVAL IS OBTAINED FROM THE CITY AND EACH STREET HAS CONTINUOUS, ACTIVE AND UNINTERRUPTED CONSTRUCTION OPERATION ON THAT STREET.

20. ALL EXISTING PAVEMENT MARKERS SHALL BE REMOVED BY THE CONTRACTOR ONLY AS THE WORK PROGRESSES AND AS APPROVED BY THE CITY INSPECTOR. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED SUBSIDIARY TO THE VARIOUS BID ITEMS. MATERIALS REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR.
21. THE CONTRACTOR SHALL NOT COMMENCE WORK ON A STREET PRIOR TO 8 A.M. WHEN APPROVED BY COSA TRAFFIC OPERATIONS DEPARTMENT. THE PLACEMENT AND MOVEMENT OF SIGNS AND BARRICADES CONSTITUTES WORK AND SHALL NOT BE STARTED UNTIL AFTER THE 8 A.M. TIME FRAME.
22. THE CONTRACTOR SHALL MAINTAIN CONTINUOUS ACCESS TO ALL INTERSECTING STREETS UNLESS OTHERWISE SHOWN ON THESE PLANS. WHEN CONTINUOUS ACCESS IS SCHEDULED TO BE BLOCKED, THE CONTRACTOR SHALL CONTACT THE DISPATCHERS FOR THE FIRE DEPARTMENT AND EMS AT 227-8341 AND THE POLICE DEPARTMENT AT 207-2257, TO APPRISE THEM OF THE PENDING STREET CLOSURE AT LEAST FORTY-EIGHT (48) HOURS IN ADVANCE. IF THE CLOSURE FALLS ALONG A BUS ROUTE, THE CONTRACTOR SHALL ALSO CONTACT VIA AT 362-5220. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SUITABLE ACCESS ACCOMMODATIONS FOR SCHOOL CHILDREN AND PEDESTRIANS.
23. THE CONTRACTOR SHALL MAINTAIN EITHER THE EXISTING OR TEMPORARY STREET NAME SIGN AT EACH INTERSECTION ONSITE THROUGHOUT CONSTRUCTION. IF THE EXISTING STREET NAME SIGNS ARE USED, THEY MUST BE MAINTAINED IN THE CONDITION ENCOUNTERED PRIOR TO THE BEGINNING OF CONSTRUCTION. IF TEMPORARY SIGNS ARE USED DURING CONSTRUCTION, THEY SHALL HAVE A MINIMUM OF 4-INCH LETTERS, AND MAY BE FABRICATED WITH CONSTRUCTION ZONE MATERIAL (BLACK LEGEND ON ORANGE BACKGROUND, USING PLYWOOD SUBSTRATE, ETC.)
24. AFTER MANHOLE AND VALVE ADJUSTMENTS ARE COMPLETED, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROPERLY BARRICADE AND MAINTAIN THE BARRICADES TO ENSURE THAT THE PUBLIC IS SAFEGUARDED WHILE TRAVELING WITHIN THE CONSTRUCTION AREA. THE CONTRACTOR SHALL CONTACT THE TRAFFIC ENGINEER FOR A REVIEW OF THE ADEQUACY OF THE BARRICADES. THERE WILL BE NO SEPARATE PAYMENT FOR THIS ITEM.
25. ALL TRAFFIC CONTROL DEVICES, PLACEMENT AND ACTIVITIES SHALL BE AS PER THE LATEST EDITION OF THE TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD). IF THERE IS ANY CONFLICT BETWEEN THE TMUTCD AND TRAFFIC CONTROL REQUIREMENTS WITH THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE CITY TRAFFIC ENGINEER IMMEDIATELY.
26. FOR STREETS, WHICH ACCOMMODATE FOUR (4) OR MORE TRAFFIC LANES, THE FOLLOWING RESTRICTIONS WILL APPLY:
- TWO-WAY TRAFFIC SHALL BE MAINTAINED.
 - A MINIMUM OF TWO LANES SHALL REMAIN OPEN FOR TRAFFIC.

- NO MORE THAN 1,000 LINEAR FEET OF A ROADWAY LANE MAY BE CLOSED DURING CONSTRUCTION OPERATION, UNLESS PERMITTED BY THE CITY OF SAN ANTONIO.
 - A MINIMUM OF ONE (1) OFF-DUTY POLICE OFFICER MAY BE REQUIRED ON-SITE DURING BASE FAILURE REPAIR, SLURRY SEALING, MILLING, AND HMAC OVERLAY OPERATIONS (NO SEPARATE PAY ITEM).
27. FLASHING WARNING LIGHTS AND/OR FLAGS SHALL BE USED TO CALL ATTENTION TO ALL ADVANCE WARNING SIGNS.
28. SIGNS WHICH READ "FRESH OIL" SHALL BE PLACED AT EACH END OF WORK AREA AND ALL TURNOUTS ADJACENT TO WORK AREAS WHERE ASPHALT WORK IS BEING PERFORMED UNTIL SUCH TIME THAT THE CITY INSPECTOR GIVES PERMISSION FOR THEIR REMOVAL.
29. ALL TRAFFIC MARKINGS SHALL BE PLACED IN ACCORDANCE WITH THE CITY TRAFFIC ENGINEER. HE SHALL BE GIVEN A MINIMUM OF SEVENTY-TWO (72) HOURS NOTICE PRIOR TO THE APPLICATION OF ANY MARKINGS.
30. THE CITY OF SAN ANTONIO PROJECT MANAGER AND CONTRACTOR SHALL NOTIFY TXDOT PRIOR TO WORKING AT THE INTERSECTION OF ANY STATE OWNED OR MAINTAINED ROADWAY.
31. ALL STREETS, FOR THEIR FULL WIDTH, SHALL BE OPENED TO TRAFFIC AT THE END OF THE WORK PERIOD.
32. AT NO DIRECT PAYMENT, APPROVED TEMPORARY SHORT-TERM EXPENDABLE PAVEMENT MARKINGS, VERTICAL PANELS OR REFLECTIVE ROAD MARKER TABS SHALL BE PROVIDED TO DELINEATE LANE CONTINUITY PRIOR TO THE APPLICATION OF STANDARD MARKINGS.
ONCE THE EXISTING STANDARD PAVEMENT MARKINGS HAVE BEEN OBLITERATED, SUCH DEVICES SHALL REMAIN IN PLACE FOR A MAXIMUM OF FOURTEEN (14) DAYS AFTER WHICH TIME STANDARD THERMOPLASTIC MARKINGS MUST BE APPLIED.
33. CONTRACTOR TO CONTACT THE CITY TRAFFIC ENGINEER OFFICE AT 207-7758 48 HOURS PRIOR TO SIDEWALK AND CURB CONSTRUCTION WHERE CITY OWNED TRAFFIC FACILITIES EXIST. CONTRACTOR SHALL SECURE APPROVAL FROM THE CITY TRAFFIC ENGINEER PRIOR TO SUCH CONSTRUCTION.
34. LOCATION AND LAYOUTS OF DETECTOR LOOP REPLACEMENTS SHALL BE VERIFIED BY THE CITY ENGINEER PRIOR TO THEIR REMOVAL AND INSTALLATION.
35. CONTRACTOR TO CONTACT CITY TRAFFIC ENGINEERING SEVEN (7) DAYS PRIOR TO COMMENCING WORK ON STREETS WITH BIKE LANE MARKING. LAYOUT SHALL BE PROVIDED TO THE CONTRACTOR BY THE CITY TRAFFIC ENGINEER.

36. DURING STREET RECONSTRUCTION, THE CONTRACTOR SHALL ALLOW RESIDENTS TRAFFIC ACCESS TO THE STREET WITH PROPER GUIDANCE, DIRECTION, FLAGMEN AND TRAFFIC CONTROL AND ONLY AT SUCH TIME THAT DAMAGE WILL NOT OCCUR TO THE NEW ASPHALT OR TO THE VEHICLES. THIS INCLUDES BUT IS NOT LIMITED TO DAMAGE RESULTING FROM TACK COAT ON THE VEHICLES PAINTED SURFACES.
37. IF POSSIBLE, THE CONTRACTOR SHALL SCHEDULE AND CONDUCT STREET OPERATIONS IN THE INTERSECTIONS AS RAPIDLY AS POSSIBLE TO MINIMIZE THE LENGTH OF TIME THE INTERSECTIONS WILL BE CLOSED TO TRAFFIC.
38. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ALL STREETS OUTSIDE OF THE PROJECT LIMITS, WHICH ARE DAMAGED DUE TO CONSTRUCTION ACTIVITIES; THE CITY'S STREET ENGINEER MUST APPROVE THE REPLACED SECTION. THERE WILL BE NO DIRECT PAYMENT FOR THIS WORK. THE COST IS TO BE INCLUDED IN OTHER ITEMS.
39. IF REQUIRED, THE BARRICADE COMPANY SHALL SUPPLY THE CONTRACTOR WITH A SUFFICIENT NUMBER OF QUALITY STANDARD BARRICADES AND OTHER TRAFFIC CONTROL DEVICES BY M. U. T. C. D. STANDARDS AS NEEDED. THE BARRICADE COMPANY SHALL ALSO SUPPLY THE CONTRACTOR WITH TWO (2) FULL TIME QUALIFIED PERSONNEL WHOSE SOLE RESPONSIBILITIES PERTAINING TO THIS PROJECT ARE TO ESTABLISH AND MAINTAIN PROPER CONSTRUCTION WORK ZONE TRAFFIC CONTROL AND RELATED DEVICES. THESE PERSONS SHALL PROVIDE DOCUMENTED EVIDENCE THEY HAVE RECEIVED SPECIALIZED TRAINING IN CONSTRUCTION WORK ZONE TRAFFIC CONTROL WITHIN TWO YEARS ON THE CONTRACT DATE. ANY AND ALL TRAFFIC CONTROL DEVICES NEEDED AND NECESSARY PERSONNEL WILL BE AT THE CONTRACTOR'S EXPENSE.
40. ALL NEWLY CONSTRUCTED CURBS SHALL BE FREE OF TACK COAT AND CLEANED PRIOR TO PROJECT COMPLETION.

UTILITY GENERAL NOTES

1. CALL THE TEXAS STATE WIDE ONE CALL LOCATOR NUMBER 1-800-344-8377, 48 HOURS BEFORE BEGINNING EXCAVATION.
2. CALL CPS ENERGY LOCATOR AT 978-3500, 48 HOURS BEFORE BEGINNING ANY EXCAVATION.
3. THE CONTRACTOR WILL BE RESPONSIBLE FOR PROTECTING CPS ENERGY OVERHEAD AND UNDER GROUND ELECTRIC FACILITIES IF ADJACENT TO WORK AREA.
4. DUE TO FEDERAL REGULATIONS TITLE 49, PART 192.181, C. P. S. ENERGY MUST MAINTAIN ACCESS TO GAS VALVES AT ALL TIMES. THE CONTRACTOR MUST PROTECT AND WORK AROUND ANY GAS LINES AND VALVES THAT ARE IN THE PROJECT AREA.
5. THE CONTRACTOR SHALL PROTECT TELEPHONE COMPANY EQUIPMENT AND OPERATIONS DURING CONSTRUCTION.
6. ALL MANHOLES AND OTHER UTILITY STRUCTURES IN THE CONSTRUCTION AREA SHALL BE ADJUSTED TO THE FINISHED GRADE. THIS ADJUSTMENT SHALL BE COMPLETED

WITHIN ONE (1) WEEK AFTER PLACEMENT OF ASPHALT. ALL PAY ITEMS INCLUDED IN BID PROPOSAL SHALL BE ADJUSTED WITHIN SEVEN (7) DAYS.

7. BUILDING PAPER SHALL BE PLACED OVER ALL MANHOLES, VALVE BOXES, GRATES, ETC., SO AS TO PROTECT THE SURFACES FROM ASPHALTIC MATERIALS DURING APPLICATION OF SEAL COAT OR TACK COAT. ASPHALT MATERIALS SHALL NOT BE PLACED, LAPPED, OR SPLASHED ONTO ADJACENT STRUCTURES OR SURFACES.
8. ALL MANHOLES AND VALVES SHALL BE ADJUSTED SO THAT THE RING AND COVER ARE WITHIN 6-INCH MAXIMUM OF THE FINISHED GRADE OF THE NEW PAVEMENT. A SINGLE PAYMENT AT THE CONTRACTOR'S UNIT BID PRICE SHALL BE MADE FOR EACH MANHOLE ADJUSTED TO THE FINISHED GRADE OF THE NEW PAVEMENT. ALL UTILITY ADJUSTMENTS SHALL BE PERFORMED WITHIN 24 HOURS OF PAVING. ALL ADJUSTMENTS SHALL CONFORM TO THE "MANHOLE AND VALVE ADJUSTMENT" STANDARD DETAIL INCLUDED IN THE UTILITY EXCAVATION IN CITY OF SAN ANTONIO PUBLIC RIGHT OF WAY, LATEST EDITION. DETAIL IS REVISED TO INSTALL A CIRCULAR CONCRETE COLLAR IN PLACE OF SQUARE CONCRETE COLLAR. CIRCULAR CONCRETE COLLAR TO BE 9-INCHES THICK CENTERED ON VALVE OR MANHOLE WITH FOUR RADIAL ½-INCH SCORE MARKS. COLLAR DIAMETER TO BE O. D. OF RING PLUS 12 INCHES.

EROSION CONTROL AND SEDIMENTATION/STORM WATER POLLUTION PREVENTION PLAN
GENERAL NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR DEVELOPING, IMPLEMENTING AND MAINTAINING A STORM WATER POLLUTION PREVENTION PLAN (SW3P) FOR THE DURATION OF THE CONSTRUCTION AS DESCRIBED IN ITEM NO. 540. ALL COSTS FOR FURNISHING, IMPLEMENTING AND MAINTAINING ANY ON SITE POLLUTION CONTROL MEASURES REQUIRED BY THE SW3P (EG. SILT FENCING, CONSTRUCTION EXITS, GRAVEL FILTER BAGS, ETC.) SHALL BE PAID FOR IN THE APPROPRIATE BID ITEMS.
2. CONTRACTOR WILL BE RESPONSIBLE FOR COMPLIANCE WITH TCEQ'S TPDES PROGRAM FOR CONTROL OF SILT AND EROSION.
3. ALL EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO ANY CONSTRUCTION ACTIVITIES. THE EROSION CONTROL MEASURES SHALL REMAIN IN PLACE AND FUNCTIONAL UNTIL AFTER THE PROPOSED IMPROVEMENTS ARE IN PLACE.
4. THE CONTRACTOR IS RESPONSIBLE FOR KEEPING STREETS AND SIDEWALKS ADJACENT TO THE PROJECT FREE OF MUD AND DEBRIS FROM CONSTRUCTION AT ALL TIMES.
5. SEDIMENT CONTROL DEVICES SHALL BE INSTALLED PRIOR TO ANY EMBANKMENT OR EXCAVATION WORK BEING DONE. WHEN THE PROJECT IS COMPLETE AND THE ENTIRE SITE IS COMPLETELY STABILIZED, THE SEDIMENT CONTROL DEVICES AND ACCUMULATED SEDIMENT SHALL BE REMOVED AND DISPOSED OF IN AN APPROVED MANNER. THE CONTRACTOR HAS THE ULTIMATE RESPONSIBILITY FOR THE EFFECTIVE CONTROL OF EROSION AND SEDIMENTATION.

6. THE CONTRACTOR SHALL SEED OR SOD A COMPLETED EMBANKMENT AS SOON AS PRACTICAL, BUT NO LATER THAN 14 DAYS AFTER AN EMBANKMENT IS COMPLETE. ALL SODDING SHALL BE PAID FOR UNDER ITEM NO. 516.2 "ST. AUGUSTINE SODDING" AT THE SINGLE UNIT PRICE AS BID PER THE CONTRACT.
7. THE SITE SHALL BE REVIEWED WEEKLY AND AFTER ANY MAJOR STORM EVENTS, ADJUSTMENTS AND REPAIRS TO THE EROSION CONTROL DEVICES SHALL BE MADE AS NEEDED.